

*City of Waterville*  
*Department of Public Works*

**STATUS REPORT & UPDATE**  
**ROAD IMPROVEMENT PROJECTS**

*~ Paving The Way ~*



**Country  
Way**



**Gilman  
Street**



**Hazelwood  
Avenue**

# **-Waterville's Road Inventory-**

- ▶ **272 Local Roads – 50.24 Miles**
- ▶ **25 State Aid Roads – 20.09 Miles**
- ▶ **10 State Highway Roads – 11.26 Miles**
- ▶ **307 Total Roads – 81.59 Miles**

**In addition to roads, the city also has:**

- ▶ **School & Municipal Parking Lots**
- ▶ **Sidewalks**
- ▶ **The Concourse & Head of Falls Plaza**
- ▶ **Quarry Road Recreation Complex**

# Why a Five Year Plan is Important:

**A Five Year Road Improvement Plan Provides the Following:**

- 1) A Comprehensive Assessment of the Condition of all City/State Roads**
- 2) Prioritization & Categorization of Proposed Work**
- 3) Recommended Schedule for Performing Upgrades**
- 4) Planning & Budgeting for Capital Improvements**

# **-Factors Affecting Repairs-**

**Many factors affect which roads are scheduled for maintenance and when.**

## **Typical Factors Are:**

- **Physical Location – Is it for some reason(s) in a critical location that could create strategic development opportunities?**
- **Priority Rating in the RSMS Report – How important is it compared to other roads?**
- **Maintenance Category – What sort of road conditions determine the type of work to be performed?**
- **Maine Department of Transportation – Is it an MPI (Municipal Partnership Initiative) or other State funded program?**
- **Cost and Annual Budget Appropriation – How much is needed and available?**

# 5 YEAR SUMMARY COMPLETED ROAD PROJECTS

## 2013

Drummond Ave (Phase 1)  
Ticonic Street

Mayflower Hill Drive\*\*  
West Concourse

## 2014

Cleveland Place  
Coolidge Street  
Drummond Ave (Phase 2)\*\*  
Greenwood Street  
Highwood Street  
Wolfe Street

Jefferson Street  
Lupine Drive  
Meadow View Drive  
N. Second Rangeway  
Patricia Terrace



## 2015

Cherry Hill Drive  
Cherry Hill Terrace  
Cool Street\*\*  
Crestwood Drive  
Eaton Drive  
Evergreen Drive

Gilbert Street  
Morgan Street  
Rideout Street  
Sawyer Street  
Sterling Street  
Westview Avenue

## 2016

Airport Road \*\*  
Ashley Terrace  
Aubrey Street  
Dunbar Court  
Forest Park  
Harris Street  
Louise Avenue  
Martin Avenue

Mt. Merici Avenue  
Nelson Street  
Oakland Street  
Quarry Road  
Ursula Street  
Union Street \*\*  
Wentworth Court  
Upper Western Avenue/  
5 Way Intersection \*\*

## 2017

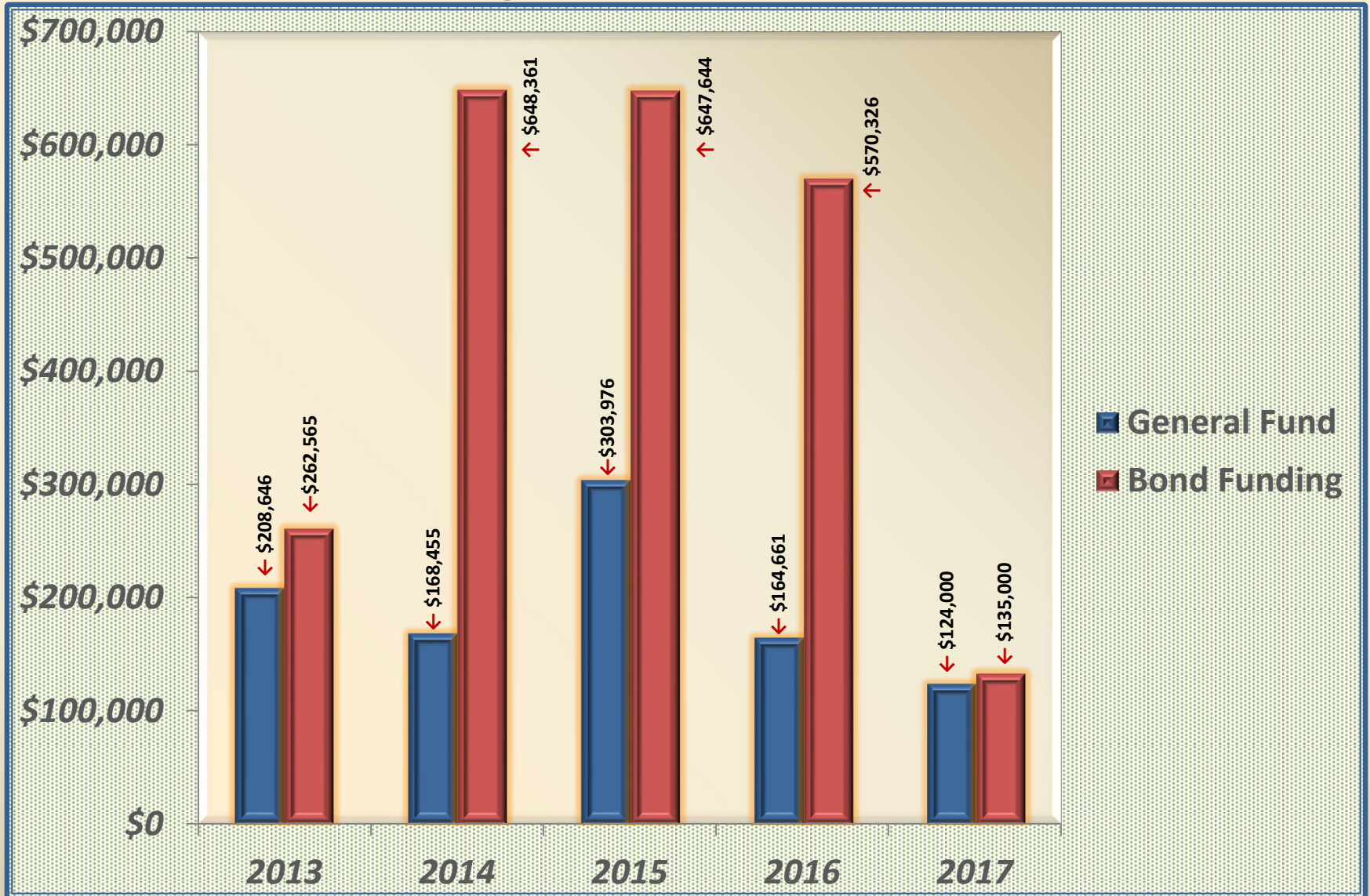
Country Way  
Crommet Street  
Gilman Street\*\*  
Hazelwood Avenue\*\*

Lawrence Street  
Mountain Farm Road  
Pearl Street  
Squire Street

Road Work Funded by Bond Appropriation

\*\* Denotes Jointly Funded City/State Projects

# Annual Expenditures for Roads



# Types of Road Surface Treatment Applications

## MAINTENANCE CATEGORY

## EXPECTED LONGEVITY

Crack Seal (Routine)	3 - 5 Years
Shim (Preventative)	3 - 5 Years
Shim/Overlay (Preventative)	10 Years
Reclaim (Rehabilitate)	15 Years
Mill & Fill (Rehabilitate)	15 Years
Full Reconstruction (Reconstruct)	20 Years

# **-SUMMARY-**

There are currently 6 miles of roads that need substantial work as either rehabilitation or reconstruction. It is estimated that the cost of repairs would be approximately **\$4 million**. We propose financing this total with bond funds over a 5 year period beginning with a 2018 bond issue for **\$1.5 million**.

In addition to the proposed bond financed work, it is recommended that the City continue with annual appropriations of **\$50,000** for routine maintenance (crack sealing/seal coating) and **\$250,000** for pavement preservation work (shim/overlay). This yearly budgetary commitment will further efforts for maintaining the City's roads that do not yet need to be fully reconstructed.

At an estimated cost of approximately \$170,000 per mile for shim/overlay upgrades however, this annual appropriation only addresses about 20% of our projected road repair needs. Depending on how long the delay, the other 80% in deferred work could result in more extensive repairs being required which would move these roads into the capital construction (reclaim) category with an average cost of \$270,000 per mile.

# What's Next for 2018?

**Stay Tuned . . . .**

Results will depend on funding and the updated RSMS